### Linking Leadership and Learning

Judy Jeffrey, Iowa Department of Education School Administrators of Iowa 2006 Annual Meeting



Have you read the headlines lately?





Public schools still refuse to turn away any student



Schools continue to serve as foundation for democracy



# Schools funnel skilled employees into workforce Unemployment remains low



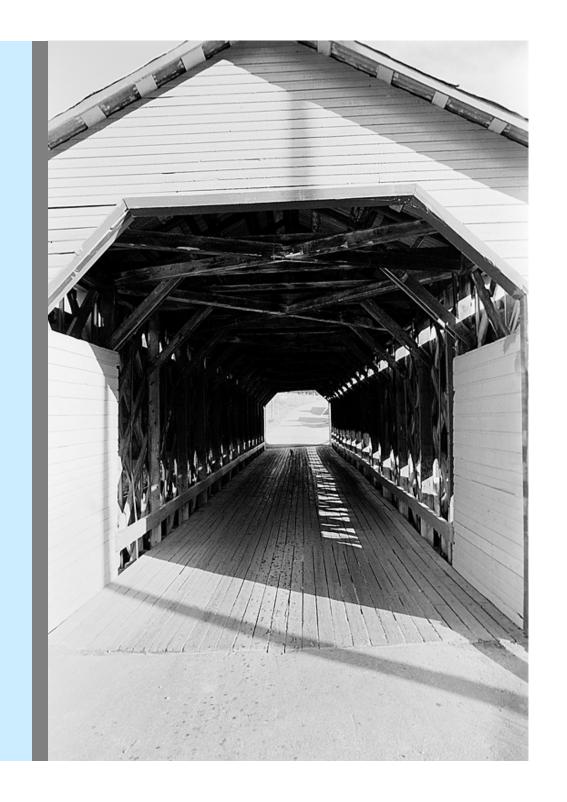
## Colleges enjoy record enrollment Thanks to quality K-12 schools

Build on Strengths, Banish the Weaknesses



**Banish Weaknesses** 

Tunnel Vision





# Sobering Facts Economy

- Wal-Mart (nation's largest employer) & McDonalds created 44% of new jobs.
- Chemical companies closed 70 facilities in U.S. – tagged 40 more for shutdown. Of 120 chemical plants built in world with price tags of \$1B+ - one in U.S. and 50 in China.
- Companies can hire 9 Mexico factory workers for 1 U.S. worker.
- IBM recently sold its personal computer business to an entity in China.
- In 2005, American investors put more new money in foreign stock funds than in domestic stock portfolios.

## Sobering Facts Higher Education

- South Korea 38% of undergraduates receive degrees in natural science or engineering
  - France 47%
  - China 50%
  - Singapore 67%
  - U.S. 15%

(Percent of World GDP)

- 1. U. S. (28.4%)
- 2. Japan (10.6%)
- 3. Germany (6.4%)
- 4. U.K. (5.0%)
- 5. France (4.8%)
- 6. China (4.4%)
- 7. Italy (3.9%)
- 8. Spain (2.6%)
- 9. Canada (2.5%)
- 10. India (1.7%)

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POP QUIZ:
Which countries are
projected to NOT stay in the
Top 10 by 2050?

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POP QUIZ:
Which countries are
projected to be ADDED to
the Top 10 by 2050?

(Percent of World GDP)

- 2. Japan (10.6) 2. U.S. (20.3)
- 3. Germany (6.4) 3. India (16.0)

- 8. Spain (2.6) 8. U.K. (2.2)

- 1. U. S. (28.4) 1. China (25.6)
- 4. U.K. (5.0) 4. Japan (3.9)
- 5. France (4.8) 5. Brazil (3.5)
- 6. China (4.4) 6. Russia (3.4)
- 7. Italy (3.9) 7. Indonesia (2.3)
- 9. Canada (2.5) 9. Germany (2.1)
- 10. India (1.7) 10. Mexico (2.0)

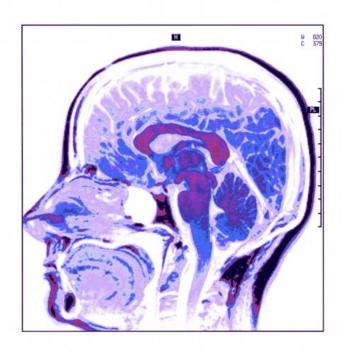
(Percent of World GDP)

	Today		2050		1820
1.	U. S. (28.4)	1.	China (25.6)	1.	China (28.7)
2.	Japan (10.6)	2.	U.S. (20.3)	2.	India (16.0)
3.	Germany (6.4)	3.	India (16.0)	3.	France (5.4)
4.	U.K. (5.0)	4.	Japan (3.9)	4.	England (5.2)
5.	France (4.8)	5.	Brazil (3.5)	5.	Prussia (4.9)
6.	China (4.4)	6.	Russia (3.4)	6.	<b>Japan</b> (3.1)
7.	Italy (3.9)	7.	Indonesia (2.3)	7.	Austria (1.9)
8.	Spain (2.6)	8.	U.K. (2.2)	8.	Spain (1.9)
9.	Canada (2.5)	9.	Germany (2.1)	9.	U.S. (1.8)
10.	India (1.7)	10.	Mexico (2.0)	10.	Russia (1.7)

## Sobering Facts K-12 Education

- 1995 U.S. 12<sup>th</sup> graders performed below the international average for 21 countries in general knowledge on math & science test.
- Growth in 11<sup>th</sup> grade Iowa proficient science students only 1% since 2001.
- 26% of Iowa students take physics.

Districts <250, 19.7% 7,500>, 30%



**Banish Weaknesses** 

- Tunnel vision
- Achievement gaps

3 grade levels tested...

2 subjects tested...

5 ethnic groups tested...

= 30 data points

25 Improved



## **Achievement Gains**

4<sup>th</sup> Grade Math Percent Proficient

	2001-03	2004-06	
Hispanic	53.0%	61.8%	+ 8.8
Asian	80.0%	83.5%	+ 3.5
American Indian	55.8%	62.2%	+ 6.4
frican American	42.7%	55.5%	+ 12.8
White	77.8%	82.7%	+ 4.9

### **Achievement Gains**

#### 8<sup>th</sup> Grade Reading Percent Proficient

	2001-03	2004-06	
Hispanic	43.0%	47.0%	+ 4.0%
Asian	68.6%	70.9%	+ 2.3%
American Indian	49.2%	58.4%	+ 9.2%
African American	35.9%	44.1%	+ 8.2%
White	72.0%	74.1%	+ 2.1%

**Achievement Gains** 

11<sup>th</sup> Grade Reading
Percent Proficient

	2001-03	2004-06	
Hispanic	53.5%	52.0%	- 1.5%
Asian	75.1%	79.1%	+ 4.0%
American Indian	62.5%	63.4%	+ 0.9%
African American	49.7%	51.4%	+ 1.7%
White	78.6%	78.7%	+ .12%

Banish Weaknesses

- Tunnel vision
- Achievement gaps
- Curriculum

Model Core Curriculum

Depth vs. breadth

#### An Example from India ...

1. Evaluate:

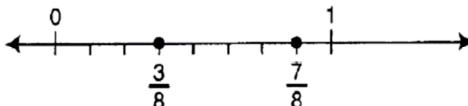
(i) 
$$\sqrt{194481}$$
 (ii)  $\sqrt{1\frac{28}{36}}$  (iii)  $\sqrt{2\frac{1}{4}}$ 

- 2. Simplify:  $\sqrt{49} + \sqrt{0.49} + \sqrt{0.0049}$
- Evaluate √7 up to three places of decimal.
- 4. Evaluate  $\sqrt{0.4}$  up to three places of decimal.
- 5. What least number must be added to 269 to make it a perfect square?
- 6. The area of a square floor is 784 m<sup>2</sup> Find its perimeter.
- The sides of two squares are in the ratio 3:4. If their combined area is 12 25 hectares, find the length of the side of each square
- 8. Find the cube root of  $2\frac{10}{27}$
- 9. Express 0 37 as a rational
- 10. Find the value of  $(8000)^{-\frac{1}{3}}$ .
- 11. Find the value of  $(125)^{\frac{2}{3}}$ .
- 12. Solve:  $6^x = 216$
- 13 Simplify:  $\frac{\sqrt{63} \times \sqrt{7}}{\sqrt[3]{27}}$
- 14. Divide:  $2x^4 + x^3 27x^2 + 36x 15$  by (2x 5).

#### ... compared to the United States

#### Elementary and Middle School Student Performance

4. Which fraction is located between  $\frac{3}{8}$  and  $\frac{7}{8}$  on the number line?



A.  $\frac{1}{4}$ 

B.  $\frac{1}{2}$ 

C.  $\frac{8}{8}$ 

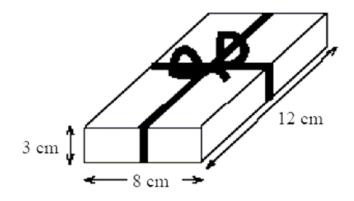
D.  $\frac{10}{8}$ 

Grade 3 Grade 4 Grade 5
19.1 39.8 50.8

#### ... compared to the United States

#### High School Student Performance

 Stu wants to wrap some ribbon around a box as shown below and have 25 centimeters left to tie a bow.



How long a piece of ribbon does he need?

#### Math Curriculum from Top Achieving Countries

						Gr	ade	
Торіс	1	2	3	4	5	6	7	8
Whole Number: Meaning				•	•			
Whole Number: Operations					•			
Measurement Units	_						•	
Common Fractions								
Equations & Formulas			<b>A</b>		•	•		
Data Representation & Analysis			_		•	•		_
2-D Geometry: Basics			_		•	•		
2-D Geometry: Polygons & Circles					•	•		
Measurement: Perimeter, Area & Volume				•	•	•	•	<b>A</b>
Rounding & Significant Figures				•	•			
Estimating Computations				•	•	•		
Whole Numbers: Properties of Operations				•	•			
Estimating Quantity & Size				_	<b>A</b>			
Decimal Fractions				•		•		
Relation of Common & Decimal Fractions						•		
Properties of Common & Decimal Fractions					•	•		
Percentages					•	•		
Proportionality Concepts					•	•	•	_
Proportionality Problems					•	•		
2-D Geometry: Coordinate Geometry								•
Geometry: Transformations						•	•	•
Negative Numbers, Integers, & Their Properties						_	•	
Number Theory							•	_
Exponents, Roots & Radicals							•	•
Exponents & Orders of Magnitude							<b>A</b>	<b>A</b>
Measurement: Estimation & Errors							<b>A</b>	
Constructions Using Straightedge & Compass								_
3-D Geometry								
Geometry: Congruence & Similarity								
Rational Numbers & Their Properties								_
Patterns, Relations & Functions								
Proportionality: Slope & Trigonometry								_

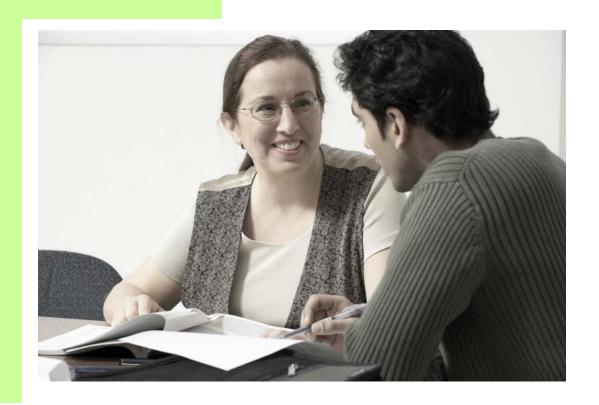
- ▲ Intended by 4 out of the 6 top-achieving countries
- Intended by all but one of the top-achieving countries (5 out of 6).
- Intended by all of the top-achieving countries.

#### Math Standards from 21 States

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Build on Strengths

Invest in teachers



Build on Strengths

- Invest in teachers
- Rely on data



#### Build on Strengths

- Invest in teachers
- Rely on data
- •21st Century skills

Communication
Financial literacy
Creativity
Media literacy
Problem solving
Citizenship

#### Build on Strengths

- Invest in teachers
- Rely on data
- •21st Century skills
- Relationships

Within the school Between school and community



### Linking Leadership and Learning

